WHAT IS CLAIMED IS:

- 1. An apparatus comprising:
 - a carousel rotationally coupled to a base; and
 - a plurality of assembly stations including a merge station having a merge tool to merge heads or head suspension assemblies of a data storage device proximate to discs and the carousel being rotatable relative to the plurality of assembly stations.
- 2. The apparatus of claim 1 wherein the plurality of assembly stations include a load/unload station and the carousel is rotatable between the load/unload station and the merge station.
- 3. The apparatus of claim 2 wherein the plurality of assembly stations include a premerge station between the load/unload station and the merge station and the premerge station includes a pre-merge cam assembly to preposition head suspension assemblies of the data storage device for merge operations.
- 4. The apparatus of claim 2 wherein the plurality of assembly stations include a post-merge station between the merge station and the load/unload station and the post-merge station includes a gripper assembly to remove a shipping comb of the head suspension assemblies.
- 5. The apparatus of claim 1 wherein the carousel includes a plurality of assembly nests and the merge tool is compliantly supported between a raised position and a lowered position proximate to the carousel and the merge tool includes at least one pin insertable into a datum socket or opening of the plurality of assembly nests.

- 6. The apparatus of claim 5 wherein the datum socket or opening is formed between three rollers or bearings to provide an adjustable interface between the merge tool and the plurality of assembly nests.
- 7. The apparatus of claim 5 wherein the datum socket or opening is formed between opposed spaced rollers or bearings to provide an axially adjustable interface between the merge tool and the plurality of assembly nests.
- 8. The apparatus of claim 1 wherein the carousel includes a plurality of assembly nests including a plurality of nest pads and the merge tool includes a plurality of nest balls which mate with nest pads on the plurality of assembly nests.
- 9. The apparatus of claim 1 wherein the merge tool includes a merge head including a plurality of merge fingers or spreaders to engage the heads or the head suspension assemblies to merge the heads or the head suspension assemblies relative to the discs.
- 10. The apparatus of claim 9 wherein the merge head includes a yoke portion rotationally coupled to the merge head and spring biased relative to the plurality of merge fingers or spreaders and the apparatus including a yoke latch assembly to restrict rotation of the yoke portion during merge operations.
- 11. The apparatus of claim 1 wherein the apparatus includes a machine vision system using an image of the heads or head suspension assemblies area prior to or following merge operation.

- 12. The apparatus of claim 11 wherein the machine vision system measures one of comb angle or position, head suspension angle or position, comb presence or latch position.
- 13. A rotatable carousel including a plurality of assembly nests comprising:

 a nest cavity formed relative to edge surfaces of a nest body; and

 at least one finger cantilevered relative to the nest cavity of the plurality of

 assembly nests and rotatable therewith to engage a workpiece

 securable in the nest cavity.
- 14. The rotatable carousel of claim 13 wherein the workpiece includes a hydrodynamic spindle assembly and the at least one finger includes a spring biased tip portion positioned to provide a biasing force relative to the spindle assembly of the workpiece.
- 15. The rotatable carousel of claim 13 wherein the at least one finger is movably coupled relative to the nest body of the plurality of assembly nest and is actuatable via a cam assembly to position the at least one finger to engage the workpiece insertable into the nest cavity.
- 16. The rotatable carousel of claim 15 wherein the workpiece is a data storage device and including opposed fingers coupled to a positioning arm actuatable by the cam assembly to position a head suspension assembly or assemblies for merge operation.

- 17. The rotatable carousel of claim 13 wherein the plurality of assembly nests include a nest plate forming the nest body and the nest plate is removably coupled to the rotatable carousel.
- 18. An assembly apparatus comprising:
 - a conveyor;
 - a rotatable carousel; and
 - a lift operable between a retracted position proximate to the conveyor and a raised position proximate to the carousel to load workpieces from the conveyor onto the rotatable carousel and unload workpieces from the rotatable carousel to the conveyor.
- 19. The assembly apparatus of claim 18 wherein the carousel rotates between a plurality of assembly stations including a load/unload station and a merge station.
- 20. The assembly apparatus of claim 19 wherein the merge station includes a merge tool to merge heads or head suspension assemblies relative to discs of the workpiece.
- 21. The assembly apparatus of claim 18 wherein the rotatable carousel includes a plurality of assembly nests configured to support the workpieces therein.
- 22. The assembly apparatus of claim 21 wherein the plurality of assembly nests include opposed latch assemblies operable between a retracted unlatched position to load the workpieces and an extended latched position.

- 23. A method comprising steps of: energizing a lift assembly to load a workpiece from a conveyor onto a carousel; and
 - rotating the carousel to position the workpiece for assembly.
- 24. The method of claim 23 wherein the step of rotating the carousel rotates the carousel to a merge station and comprising the step of:
 - energizing a merge tool to merge heads or head suspension assemblies relative to discs of the workpiece.
- 25. The method of claim 24 and comprising the step of: supplying a biasing force relative to a disc spindle assembly to align the discs for merge operations.
- 26. The method of claim 24 and comprising the step of:

 providing vision alignment based upon an image of a region of the workpiece

 prior to or following merge operations of the merge tool to locate one of
 a comb, head suspension assembly, latch assembly or positioning or
 clocking arm.